WHAT IS CLAIMED IS:

1. Apparatus for transporting an essentially sheet-like element, particularly for transporting a sheet of printing material in a printing press, the apparatus comprising at least one rotating transport for transporting the sheet-like element from a pickup site to a delivery site and delivering the sheet-like element there, said rotating transport having, for receiving and entraining the sheet-like element, at least one gripper-like pickup into which the leading edge of the sheet-like element is introduced or inserted, and including at least one fragmentally existing bending core used for curving the sheet-like element during the transport over a rotational or curvature radius, wherein at least one guide element between the pickup site and the delivery site blocks, at least in the centrifugal direction, for the purpose of maintaining the radius of curvature.

2. Apparatus according to Claim 1, wherein the distance, preferably measured across the curvature path of the sheet-like element, is variably adjustable between the guide element and the delivery site to accommodate the length and/or width of the sheet-like element.

3. Apparatus according to Claim 2, wherein said transport includes a body with an essentially circular periphery.

4. Apparatus according to Claim 3, wherein said at least one gripper-like pickup is defined as a slot or a slit.

5. Apparatus according to Claim 4, wherein a majority of gripper-like pickups are arranged in an even distribution over a 360° angle.

6. Apparatus according to Claim 3, wherein said guide element comprises a roller element for which an essentially circular guide rail is provided as a guide, said guide rail being identical, with or coaxially offset to, the circular periphery of the body of said transport and arranged to rotate with the body.

7. Apparatus according to Claim 6, wherein said guide rail that is coaxially offset to the body of said transport has a somewhat larger radius than the body.

8. Apparatus according to Claim 7, wherein said radius of the guide rail is somewhat smaller than the radial distance of the radially exterior inner surface of said gripper-like pickup.

9. Apparatus according to Claim 6, further including a lever arm that is essentially perpendicular, and thus pivotally mounted, and essentially horizontal for varying the distance of the guide element.

10. Apparatus according to Claim 9, wherein said guide element can be shifted by motor power.

11. Apparatus according to Claim 1, further including a fixed stop that is arranged in the area of the delivery site for the leading edge of the sheet-like element that is inserted into said at least one gripper-like pickup.

12. Apparatus according to Claim 1, further including a protective covering for a stack of deposited sheet-like elements provided in the area of the delivery site, opposite said transport.

13. Apparatus according to Claim 1, further including several coaxial transports spaced apart from one another.

14. Apparatus according to Claim 13, wherein two transports are arranged laterally reversed with regard to a mirror surface perpendicular to the rotational axis.